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Molecular analysis of the leukotoxin determinants from Pasteurella haemolytica serotypes 1 to 16

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All sixteen serotypes of Pasteurella haemolytica were shown to produce a leukotoxin protein which is immunologically related to the well- characterized serotype 1 leukotoxin. All of the leukotoxins were weakly hemolytic and were able to bind to BL-3 target cells. The leukotoxin determinants were characterized by Southern blot hybridization by use of the previously cloned serotype 1 determinant as the probe, and a number of distinct classes were identified. The leukotoxin determinants from serotypes 2, 3, and 11 were cloned. Nucleotide sequence analysis of the lktC and lktA genes of the serotype 3 and 11 determinants revealed nucleotide substitutions throughout the coding sequences. A comparison of the lktC and lktA genes and deduced proteins of serotypes 1, 3, and 11 showed that they are highly homologous.

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- Davies, R. L., Campbell, S., Whittam, T. S. (2002). Mosaic Structure and Molecular Evolution of the Leukotoxin Operon (IktCABD) in Mannheimia (Pasteurella) haemolytica, Mannheimia glucosida, and Pasteurella trehalosi. J. Bacteriol. 184: 266-277 [Abstract] [Full Text]
 Davies, R. L., Whittam, T. S., Selander, R. K. (2001). Sequence Diversity and Molecular Evolution of the Leukotoxin (IktA) Gene in Bovine and Ovine Strains of Mannheimia (Pasteurella) haemolytica. J. Bacteriol. 183: 1394-1404 [Abstract] [Full Text]

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